

SUBJECT INDEX

Aerodynamics

"Rigidity and Aerodynamic Stability of Suspension Bridges." Discussion: Edward Adams Richardson, 211; R. K. Bernhard, 410; J. M. Robertson, C. H. Gronquist, 689; F. B. Farquharson, 1003; H. Reissner, Blair Birdsall, Hardy Cross, Frederick C. Smith, Hermann Friedlaender, and George S. Vincent, 1063; Louis Balog, 1573.

Airports

"Military Airfields": A Symposium. James H. Stratton, Gail A. Hathaway, 27. Discussion: James B. Newman, Jr., 231; Thomas E. Stanton, 425; W. E. Howland, David S. Jenkins, 565; William E. Rudolph, Raymond L. Irwin, G. G. Greulich, Hibbert Hill, Jacob Feld, Robert Horonjeff, 745; Clarence S. Jarvis, D. D. McGuire, E. D. Parmer, A. Casagrande, Harry E. Cotton, 943; D. O. Murray, Thomas B. Pringle, John R. Haswell, W. J. Turnbull and William H. Jervis, Ralph R. Proctor, D. M. Burmister, Ralph Hansen, H. V. Pittman, G. R. Schneider, H. M. Williams, 1085; Ira B. Mullis, C. F. Izzard, 1498; L. J. Mensch, 1603.

Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. Frederick E. Schnepfe, Jay Downer, Roy W. Crum, George M. Shepard, William B. Catchings, 663.

Arches

"Analysis of Statically Indeterminate Structures Using Reduced Equations." Lee H. Johnson, Jr., 1395.

"Simplified Analysis of Skewed Reinforced Concrete Frames and Arches." Discussion: J. Charles Rathbun, 193; Maurice Barron, Phillips H. Lovering, Jaroslav Polivka, 417; A. A. Eremin, Richard M. Hodges, 595.

Bascule Bridges

See **Lift Bridges**.

Beams

"A Symmetrically Loaded Base Slab on an Elastic Foundation." Discussion: A. A. Eremin, 196; A. E. Cummings, Harris Epstein and James R. Ayers, Jr., Stanley U. Benscoter, 579.

"Analysis of Statically Indeterminate Structures Using Reduced Equations." Lee H. Johnson, Jr., 1395.

"Design Constants for Beams with Nonsymmetrical Straight Haunches." August L. Ahlf, 1237.

"Shear and Bond Stresses in Reinforced Concrete." Stanley U. Benscoter and Samuel T. Logan, 295. Discussion: F. E. Shanley, B. J. Aleck, Dean Peabody, Jr., William E. Wilbur, 725; L. E. Grinter, Anders Bull, 967; Victor R. Bergman, Phil M. Ferguson, 1206.

"Strength of Slender Beams." Discussion: H. D. Hussey, 240; George Winter, 715.

Bibliography

Beams and columns. 242; 718.
Beams and plates on yielding foundations. 579.
Cofferdams. 1046; 1638.
Construction and design of airfields. 88; 578; 762; 965; 1121; 1503; 1608.
Evaporation. 1323.
Frames. 147; 724; 992; 1492.

Highway construction. 236; 424; 538; 744; 925; 1135.

Hydraulics. 661.

Meteorology. 188.

Sediment. 389; 527; 774.

Sedimentation and turbulence. 372.

Sewage treatment and pollution. 506.

Soils and settlement of structures. 688.

Suspension bridges. 1483.

Timber structures. 321.

Bridge Failures

See **Failures**.

Bridges

"Rainbow Arch Bridge Over Niagara Gorge": A Symposium. Discussion: C. M. Goodrich, T. Kennard Thomson, 114; C. M. Spofford, L. J. Mensch, O. H. Ammann, 199; Louis Balog, William G. Rapp, Leon Beskin, 390; Neil Van Eenam, C. H. Gronquist, 607; M. Hirschthal, 702; George Stern, 927.

Bridges, Suspension

Report of the Special Committee of the Board of Direction on the Failure of the Tacoma Narrows Bridge. Discussion: Francis P. Witmer, 553; Homer M. Hadley, 909; Louis Balog, 1475.

"Rigidity and Aerodynamic Stability of Suspension Bridges." Discussion: Edward Adams Richardson, 211; R. K. Bernhard, 410; J. M. Robertson, C. H. Gronquist, 689; F. B. Farquharson, 1003; H. Reissner, Blair Birdsall, Hardy Cross, Frederick C. Smith, Hermann Friedlaender, and George S. Vincent, 1063; Louis Balog, 1573.

Canals

"Economic Canal Cross Sections." Victor L. Streeter, 619. Discussion: V. A. Endersby, 1231; Julian Hinds, 1343; D. C. McConaughy, C. J. Posey, 1513.

"Surges in Panama Canal Reproduced in Model." F. W. Edwards and Edward Soucek, 3. Discussion: Harold A. Weggel, 539; Harry Leopoldt, 763; C. J. Posey, 942; F. W. Edwards and Edward Soucek, 1598.

Channels (Waterways)

"Flow in a Channel of Definite Roughness." Ralph W. Powell, 1521.

"The Hydraulic Jump in Sloping Channels." Discussion: Carl E. Kindsvater, 669.

"Translatory Waves in Natural Channels." J. H. Wilkinson, 853.

See also **Water, Flow of, in Open Channels**.

City Planning

The integration of airport and highway planning. 667.

Clay

"Simultaneous Consolidation of Contiguous Layers of Unlike Compressible Soils." Hamilton Gray, 149. Discussion: Edward S. Barber, Jacob Feld, 993; George W. Glick, 1225.

Cofferdams

"Stability and Stiffness of Cellular Cofferdams." Karl Terzaghi, 1015. Discussion: G. G. Greulich, Raymond P. Pennoyer, 1625.

Columns

"Column Formulas." William R. Osgood, 1565.

"Design Constants for Beams with Nonsymmetrical Straight Haunches." August L. Ahlf, 1237.

"Shear Effect on the Strength of Struts." Discussion: Leon Beskin, Marshall Holt, 224; David B. Hall, 413; S. Sergev, 1353.

"Strength of Slender Beams." Discussion: H. D. Hussey, 240; George Winter, 715.

Compressed Air

Action of compressed air., 645.

Concrete

"Concrete Reservoirs of the Vertical-Beam Type." Discussion: C. Maxwell Stanley, Jr., 179.

"Simplified Analysis of Skewed Reinforced Concrete Frames and Arches." Discussion: J. Charles Rathbun, 193; Maurice Barron, Phillips H. Lovering, Jaroslav Polivka, 417; A. A. Eremin, Richard M. Hodges, 595.

Concrete Lining

"Economical Canal Cross Sections." Victor L. Streeter, 619. Discussion: V. A. Endersby, 1231; Julian Hinds, 1343; D. C. McConaughy, C. J. Posey, 1513.

Construction Plant

See **Contractors' Plant.**

Contractors' Plant

"Erection of Hydraulic Turbines and Generators." Andrew M. Komora, 255. Discussion: Paul E. Gisiger, Frank I. Morgan, 1000; J. F. Roberts, D. E. Brainard, 1195.

Contracts

"Original and Readjusted Repayment Contracts, Boulder Canyon Project." Discussion: W. L. Chadwick, 122; A. R. Arledge, 237; Clay C. Elder, 1485.

Costs

"Original and Readjusted Repayment Contracts, Boulder Canyon Project." Discussion: W. L. Chadwick, 122; A. R. Arledge, 237; Clay C. Elder, 1485.

"The Queens Midtown Tunnel." Discussion: A. A. Eremin, Arthur S. Tuttle, 189; Ole Singstad, 375.

Cross Sections

"Economical Canal Cross Sections." Victor L. Streeter, 619. Discussion: V. A. Endersby, 1231; Julian Hinds, 1343; D. C. McConaughy, C. J. Posey, 1513.

Culverts

Hydraulics of. 174.

Curves

"Strength of Slender Beams." Discussion: H. D. Hussey, 240; George Winter, 715.

Cutoff

"Unusual Cutoff Problems—Dams of the Tennessee Valley Authority." A Symposium. Discussion: Berlen C. Moneymaker, 221; Portland P. Fox, J. K. Black, 545; L. C. Glenn, 789.

Dams

"Unusual Cutoff Problems—Dams of the Tennessee Valley Authority." A Symposium. Discussion: Berlen C. Moneymaker, 221; Portland P. Fox, J. K. Black, 545; L. C. Glenn, 789.

Depreciation

See **Valuation.**

Drainage

"A Method of Computing Urban Runoff." Discussion: W. I. Hicks, 695.

Design of drainage facilities. 55.

"Flood Formulas Based on Drainage Basin Characteristics." H. B. Kinnison and B. R. Colby, 267. Discussion: Clarence S. Jarvis, 903; L. R. Beard, M. J. Ord, 1199; Howard M. Turner, Byron O. McCoy, 1337; C. O. Clark, 1505.

Earth Pressures

"Fendleton Levee Failure." Discussion: Kenneth E. Fields and William L. Wells, 786.

"Pressure on the Lining of Circular Tunnels in Plastic Soils." D. P. Krynine, 629. Discussion: M. A. Drucker, 1215; John M. Bird, 1639.

"Stresses in the Linings of Shield-Driven Tunnels." Anders Bull, 1363.

Electric Generators

"Erection of Hydraulic Turbines and Generators." Andrew M. Komora, 255. Discussion: Paul E. Gisiger, Frank I. Morgan, 1000; J. F. Roberts, D. E. Brainard, 1195.

Evaporation

"Evaporation from a Free Water Surface." G. H. Hickox, 1297.

Failures

Report of the Special Committee of the Board of Direction on the Failure of the Tacoma Narrows Bridge. Discussion: Francis P. Witmer, 553; Homer M. Hadley, 909; Louis Balog, 1475.

Finance

"Organizing and Financing Sewage Treatment Projects." Discussion: Samuel A. Greeley, 91.

Floods

"Characteristics of Heavy Rainfall in New Mexico and Arizona." Discussion: Walter B. Langbein, Emil P. Schuele, 95; Luna B. Leopold, 559.

"Flood Formulas Based on Drainage Basin Characteristics." H. B. Kinnison and B. R. Colby, 267. Discussion: Clarence S. Jarvis, 903; L. R. Beard, M. J. Ord, 1199; Howard M. Turner, Byron O. McCoy, 1337; C. O. Clark, 1505.

"Primary Role of Meteorology in Flood Flow Estimating." Discussion: Merrill Bernard, 183.

Progress Report of the Chairman, Joint Division Committee on Floods. Gerard H. Matthes, 167.

"Role of the Land During Flood Periods." Discussion: W. W. Horner, 707.

Flumes

"Flow in a Channel of Definite Roughness." Ralph W. Powell, 1521.

"Transportation of Suspended Sediment by Water." Vito A. Vannoni, 793. Discussion: Ralph W. Powell, E. R. Van Driest, 1618.

Foundations

"Application of Soil Mechanics in Designing Building Foundations." Discussion: A. Casagrande and R. E. Fadum, 341.

"Stability and Stiffness of Cellular Cofferdams." Karl Terzaghi, 1015. Discussion: G. G. Greulich, Raymond P. Pennoyer, 1625.

Frameworks

See **Structures, Theory of.**

Generators

See **Electric Generators.**

Geology

"Geology in Highway Engineering." Discussion: W. W. Crosby, 235; Carl B. Brown, 423; F. H. Kellogg, Berlen C. Moneymaker, E. F. Bean, A. T. Bleck, Lyman W. Wood, Philip

Keene, Jacob Feld, 528; H. E. Marshall, K. B. Woods, D. J. Belcher, 733; R. Woodward Moore, George E. Ekblaw, Allen S. Cary and Ade E. Jaskar, 921; Karl Terzaghi, D. P. Krynnine, Robert F. Legget, Irving B. Crosby, 1122; Hyde Forbes, A. A. Eremin, Marshall T. Hunting, 1589.

Grouting

"Unusual Cutoff Problems—Dams of the Tennessee Valley Authority": A Symposium. Discussion: Berlen C. Moneymaker, 221; Portland P. Fox, J. K. Black, 545; L. C. Glenn, 789.

Health

"Illinois Water Litigation, 1940-1941." Discussion: H. P. Ramey, Langdon Pearse, 590.

Highways and Roads

"Geology in Highway Engineering." Discussion: W. W. Crosby, 235; Carl B. Brown, 423; F. H. Kellogg, Berlen C. Moneymaker, E. F. Bean, A. T. Bleck, Lyman W. Wood, Philip Keene, Jacob Feld, 528; H. E. Marshall, K. B. Woods, D. J. Belcher, 733; R. Woodward Moore, George E. Ekblaw, Allen S. Cary and Ade E. Jaskar, 921; Karl Terzaghi, D. P. Krynnine, Robert F. Legget, Irving B. Crosby, 1122; Hyde Forbes, A. A. Eremin, Marshall T. Hunting, 1589.

Hydraulics

"Coefficients for Velocity Distribution in Open-Channel Flow." William S. Eisenlohr, Jr., 15. Discussion: A. A. Kalinske, Edward H. Taylor, 541; E. R. Van Driest, Hunter Rouse and John S. McNown, 1137.

"Construction of the Flow Net for Hydraulic Design." H. Alden Foster, 647.

"Conversion of Kinetic to Potential Energy in Flow Expansion." A. A. Kalinske, 1545.

"Determination of Kutter's n for Sewers Partly Filled." Discussion: C. Frank Johnson, 93.

"Flow in a Channel of Definite Roughness." Ralph W. Powell, 1521.

"Lock Manifold Experiments." Edward Soucek and E. W. Zelnick, 1255.

"Surges in Panama Canal Reproduced in Model." F. W. Edwards and Edward Soucek, 3. Discussion: Harold A. Weggel, 539; Harry Leopoldt, 763; C. J. Posey, 942; F. W. Edwards and Edward Soucek, 1598.

"Transportation of Suspended Sediment by Water." Vito A. Vanoni, 793. Discussion: Ralph W. Powell, E. R. Van Driest, 1618.

See also **Water, Flow of.**

Incineration

"Dewatering, Incineration, and Use of Sewage Sludge": A Symposium. Discussion: Langdon Pearse, 243.

Landslides

"Pendleton Levee Failure." Discussion: Kenneth E. Fields and William L. Wells, 786.

Law

"Illinois Water Litigation, 1940-1941." Discussion: H. P. Ramey, Langdon Pearse, 590.

Levees

Dikes and levees. 170.

"Pendleton Levee Failure." Discussion: Kenneth E. Fields and William L. Wells, 786.

Lift Bridges

"Development of the Chicago Type Bascule Bridge." Discussion: C. B. McCullough, 105; Donald N. Becker, 555.

Lock-Gates

"Hydraulic Model Investigation of Miter Gate Operation." Maurice N. Amster, 303. Discussion: Edward Soucek, 932; Isaac DeYoung, F. W. Edwards, 1227.

Locks

"Lock Manifold Experiments." Edward Soucek and E. W. Zelnick, 1255.

"Surges in Panama Canal Reproduced in Model." F. W. Edwards and Edward Soucek, 3. Discussion: Harold A. Weggel, 539; Harry Leopoldt, 763; C. J. Posey, 942; F. W. Edwards and Edward Soucek, 1598.

Materials of Construction

"Geology in Highway Engineering." Discussion: W. W. Crosby, 235; Carl B. Brown, 423; F. H. Kellogg, Berlen C. Moneymaker, E. F. Bean, A. T. Bleck, Lyman W. Wood, Philip Keene, Jacob Feld, 528; H. E. Marshall, K. B. Woods, D. J. Belcher, 733; R. Woodward Moore, George E. Ekblaw, Allen S. Cary and Ade E. Jaskar, 921; Karl Terzaghi, D. P. Krynnine, Robert F. Legget, Irving B. Crosby, 1122; Hyde Forbes, A. A. Eremin, Marshall T. Hunting, 1589.

Meteorology

"Characteristics of Heavy Rainfall in New Mexico and Arizona." Discussion: Walter B. Langbein, Emil P. Schuleen, 95; Luna B. Leopold, 559.

"Primary Role of Meteorology in Flood Flow Estimating." Discussion: Merrill Bernard, 183.

Models

"Hydraulic Model Investigation of Miter Gate Operation." Maurice N. Amster, 303. Discussion: Edward Soucek, 932; Isaac DeYoung, F. W. Edwards, 1227.

"Surges in Panama Canal Reproduced in Model." F. W. Edwards and Edward Soucek, 3. Discussion: Harold A. Weggel, 539; Harry Leopoldt, 763; C. J. Posey, 942; F. W. Edwards and Edward Soucek, 1598.

Moments

"Design Constants for Beams with Nonsymmetrical Straight Haunches." August L. Ahlf, 1237.

"Wedge-Shaped Structural Members Under Direct Stress and Bending." Robert B. Moorman, 877. Discussion: Phil M. Ferguson, Stanley U. Benscoter, 1347.

Pavement

"Military Airfields": A Symposium. James H. Stratton, Gail A. Hathaway, 27. Discussion: James B. Newman, Jr., 231; Thomas E. Stanton, 425; W. E. Howland, David S. Jenkins, 565; William E. Rudolph, Raymond L. Irwin, G. G. Greulich, Hibbert Hill, Jacob Feld, Robert Horonjeff, 745; Clarence S. Jarvis, D. D. McGuire, E. D. Parmer, A. Casagrande, Harry E. Cotton, 943; D. O. Murray, Thomas B. Pringle, John R. Haswell, W. J. Turnbull and William H. Jervis, Ralph R. Proctor, D. M. Burmister, Ralph Hansen, H. V. Pittman, G. R. Schneider, H. M. Williams, 1085; Ira B. Mullis, C. F. Izzard, 1498; L. J. Mensch, 1603.

Precipitation

See **Rainfall.**

Pressures

See **Earth Pressures.**

Rainfall

"Characteristics of Heavy Rainfall in New Mexico and Arizona." Discussion: Walter B. Langbein, Emil P. Schuleen, 95; Luna B. Leopold, 559.

Design of drainage facilities. 55.

"Role of the Land During Flood Periods." Discussion: W. W. Horner, 707.

Regional Planning

Work for state planning and city zoning commissions. 168.

Reinforced Concrete

"Shear and Bond Stresses in Reinforced Concrete." Stanley U. Benscoter and Samuel T. Logan, 295. Discussion: F. R. Shanley, B. J. Aleck, Dean Peabody, Jr., William E. Wilbur, 725; L. E. Grinter, Anders Bull, 967; Victor R. Bergman, Phil M. Ferguson, 1206.

Reports of Committees

Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. Henry E. Riggs, T. R. Agg, N. T. Veatch, L. R. Howson, 1417.

Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. Frederick E. Schnepfe, Jay Downer, Roy W. Crum, George M. Shepard, William B. Catchings, 663.

Progress Report of the Chairman, Joint Division Committee on Floods. Gerard H. Matthes, 167.

Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. H. J. Hansen, William G. Atwood, John J. Gould, Francis J. Hanrahan, Verne L. Ketchum, Ralph H. Mann, William A. Oliver, C. H. Sandberg, Hermann von Schrenk, 321.

Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. Henry E. Riggs, T. R. Agg, N. T. Veatch, L. R. Howson, 887. Discussion: C. Beverley Benson, E. M. T. Ryder, Wallace B. Carr, J. L. Campbell, Paul L. Holland, J. Kappeyne, C. Terry duRell, Anson Marston, Terrell Bartlett, E. E. Hart, Luther R. Nash, 1155; Donald Gunn, 1329; R. C. Price, 1493.

Report of the Special Committee of the Board of Direction on the Failure of the Tacoma Narrows Bridge. Discussion: Francis P. Witmer, 553; Homer M. Hadley, 909; Louis Balog, 1475.

Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. Langdon Pearse, Wellington Donaldson, Samuel M. Ellsworth, Linn H. Enslow, C. E. Keefer, E. T. Killam, Willem Rudolfs, M. T. Singleton, F. M. Veatch, 457.

Reservoirs

"Concrete Reservoirs of the Vertical-Beam Type." Discussion: C. Maxwell Stanley, Jr., 179.

Reservoir operation. 171.

"Sedimentation in Reservoirs." Discussion: A. L. Sonderegger, 387; L. Standish Hall, 521; Berard J. Witzig, 766.

Runoff

"A Method of Computing Urban Runoff." Discussion: W. L. Hicks, 695.

"Flood Formulas Based on Drainage Basin Characteristics." H. B. Kinnison and B. R. Colby, 267. Discussion: Clarence S. Jarvis, 903; L. R. Beard, M. J. Ord, 1199; Howard M. Turner, Byron O. McCoy, 1337; C. O. Clark, 1505.

"Primary Role of Meteorology in Flood Flow Estimating." Discussion: Merrill Bernard, 183.

See also **Rainfall**.

Sedimentation

"Effect of Turbulence on Sedimentation." Discussion: E. R. Van Driest, 103; R. Schuhmann, Jr., 252; H. B. Southwood, L. Standish Hall, William E. Dobbins, 370.

"Sedimentation in Reservoirs." Discussion: A. L. Sonderegger, 387; L. Standish Hall, 521; Berard J. Witzig, 766.

"Transportation of Suspended Sediment by Water." Vito A. Vanoni, 793. Discussion: Ralph W. Powell, E. R. Van Driest, 1618.

Sewage Disposal

"Concentration of Sewage Sludge": A Symposium. R. F. Goudey, C. E. Keefer, Willem Rudolfs, Wellington Donaldson, 1275.

"Dewatering, Incineration, and Use of Sewage Sludge": A Symposium. Discussion: Langdon Pearse, 243.

"Illinois Water Litigation, 1940-1941." Discussion: H. P. Ramey, Langdon Pearse, 590.

"Organizing and Financing Sewage Treatment Projects." Discussion: Samuel A. Greeley, 91.

Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. Langdon Pearse, Wellington Donaldson, Samuel M. Ellsworth, Linn H. Enslow, C. E. Keefer, E. T. Killam, Willem Rudolfs, M. T. Singleton, F. M. Veatch, 457.

"Sludge Drying Developments at Chicago, Ill." Discussion: Langdon Pearse, 246; Lloyd M. Johnson, 678.

Sewage Treatment

See **Sewage Disposal**.

Sewage Works

See **Sewage Disposal**.

Sewerage

"Determination of Kutter's n for Sewers Partly Filled." Discussion: C. Frank Johnson, 93.

Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. Langdon Pearse, Wellington Donaldson, Samuel M. Ellsworth, Linn H. Enslow, C. E. Keefer, E. T. Killam, Willem Rudolfs, M. T. Singleton, F. M. Veatch, 457.

Shear

"Shear Effect on the Strength of Struts." Discussion: Leon Beskin, Marshall Holt, 224; David B. Hall, 413; S. Sergev, 1353.

Slabs

"A Symmetrically Loaded Base Slab on an Elastic Foundation." Discussion: A. A. Eremin, 196; A. E. Cummings, Harris Epstein and James R. Ayers, Jr., Stanley U. Benscoter, 579.

Soils

"Application of Soil Mechanics in Designing Building Foundations." Discussion: A. Casagrande and R. E. Fadum, 341.

"Pendleton Levee Failure." Discussion: Kenneth E. Fields and William L. Wells, 786.

"Relation of Undisturbed Sampling to Laboratory Testing." Discussion: P. C. Rutledge, 679.

"Sedimentation in Reservoirs." Discussion: A. L. Sonderegger, 387; L. Standish Hall, 521; Berard J. Witzig, 766.

- "Simultaneous Consolidation of Contiguous Layers of Unlike Compressible Soils." Hamilton Gray, 149. Discussion: Edward S. Barber, Jacob Feld, 993; George W. Glick, 1225.
- Spillways**
"Construction of the Flow Net for Hydraulic Design." H. Alden Foster, 647.
- Strength of Materials**
"Shear Effect on the Strength of Struts." Discussion: Leon Beskin, Marshall Holt, 224; David B. Hall, 413; S. Sergev, 1353.
- Stress and Strain**
"Analysis of the General Two-Dimensional Framework." Yves Nubar, 429. Discussion: Leon Beskin, 913; Jaroslav Polivka, 1221.
"Characteristic Redundants Used for Analyzing Statically Indeterminate Structures." John B. Wilbur, 829. Discussion: Charles A. Ellis, 1218; Ralph W. Stewart, Myle J. Holley, Jr., M. W. Huggins, Leon Beskin, 1609.
"Column Formulas." William R. Osgood, 1565.
"Pressure on the Lining of Circular Tunnels in Plastic Soils." D. P. Krynine, 629. Discussion: M. A. Drucker, 1215; John M. Bird, 1639.
"Rainbow Arch Bridge Over Niagara Gorge": A Symposium. Discussion: C. M. Goodrich, T. Kennard Thomson, 114; C. M. Spofford, L. J. Mensch, O. H. Ammann, 199; Louis Balog, William G. Rapp, Leon Beskin, 390; Neil Van Eenam, C. H. Gronquist, 607; M. Hirschthal, 702; George Stern, 927.
"Relation of Undisturbed Sampling to Laboratory Testing." Discussion: P. C. Rutledge, 679.
"Shear and Bond Stresses in Reinforced Concrete." Stanley U. Benscoter and Samuel T. Logan, 295. Discussion: F. R. Shanley, B. J. Aleck, Dean Peabody, Jr., William E. Wilbur, 725; L. E. Grinter, Anders Bull, 967; Victor R. Bergman, Phil M. Ferguson, 1206.
"Strength of Slender Beams." Discussion: H. D. Hussey, 240; George Winter, 715.
"Stresses in the Linings of Shield-Driven Tunnels." Anders Bull, 1363.
"Wedge-Shaped Structural Members Under Direct Stress and Bending." Robert B. B. Moorman, 877. Discussion: Phil M. Ferguson, Stanley U. Benscoter, 1347.
- Structures, Theory of**
"A Symmetrically Loaded Base Slab on an Elastic Foundation." Discussion: A. A. Eremin, 196; A. E. Cummings, Harris Epstein and James R. Ayers, Jr., Stanley U. Benscoter, 579.
"Amplified Slope Deflection." Ralph W. Stewart, 1051. Discussion: Leon Beskin, 1516.
"Analysis of Rigid Frames by Superposition." David M. Wilson, 129. Discussion: F. S. Merritt, Ralph W. Stewart, John E. Goldberg, 719; A. W. Fischer, Leon Blog, Arthur B. McGee, Jaroslav Polivka, 973; Odd Albert, W. C. Spiker, 1147; David B. Hall, A. A. Eremin, Victor R. Bergman, 1487.
"Analysis of Statically Indeterminate Structures Using Reduced Equations." Lee H. Johnson, Jr., 1395.
"Analysis of the General Two-Dimensional Framework." Yves Nubar, 429. Discussion: Leon Beskin, 913; Jaroslav Polivka, 1221.
"Characteristic Redundants Used for Analyzing Statically Indeterminate Structures." John B. Wilbur, 829. Discussion: Charles A. Ellis, 1218; Ralph W. Stewart, Myle J. Holley, Jr., M. W. Huggins, Leon Beskin, 1609.
- "Column Formulas." William R. Osgood, 1565.
"Design Constants for Beams with Nonsymmetrical Straight Haunches." August L. Ahl, 1237.
"Simplified Analysis of Skewed Reinforced Concrete Frames and Arches." Discussion: J. Charles Rathbun, 193; Maurice Barron, Phillips H. Lovering, Jaroslav Polivka, 417; A. A. Eremin, Richard M. Hodges, 595.
- Struts**
See Columns.
- Timber**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. H. J. Hansen, William G. Atwood, John J. Gould, Francis J. Hanrahan, Verne L. Ketchum, Ralph H. Mann, William A. Oliver, C. H. Sandberg, Hermann von Schrenk, 321.
- Torsion**
"Rigidity and Aerodynamic Stability of Suspension Bridges." Discussion: Edward Adams Richardson, 211; R. K. Bernhard, 410; J. M. Robertson, C. H. Gronquist, 689; E. B. Farquharson, 1003; H. Reissner, Blair Birdsall, Hardy Cross, Frederick C. Smith, Hermann Friedlaender, and George S. Vincent, 1063; Louis Balog, 1573.
- Tunnel Lining**
"Stresses in the Linings of Shield-Driven Tunnels." Anders Bull, 1363.
- Tunnels**
"Pressure on the Lining of Circular Tunnels in Plastic Soils." D. P. Krynine, 629. Discussion: M. A. Drucker, 1215; John M. Bird, 1639.
"Stresses in the Linings of Shield-Driven Tunnels." Anders Bull, 1363.
"The Queens Midtown Tunnel." Discussion: A. A. Eremin, Arthur S. Tuttle, 189; Ole Singstad, 375.
- Turbulence**
"Effect of Turbulence on Sedimentation." Discussion: E. R. Van Driest, 103; R. Schuhmann, Jr., 252; H. B. Southwood, L. Standish Hall, William E. Dobbins, 370.
- Turbines (Water)**
"Erection of Hydraulic Turbines and Generators." Andrew M. Komora, 255. Discussion: Paul E. Gisiger, Frank I. Morgan, 1000; J. F. Roberts, D. E. Brainard, 1195.
- Unit Stresses**
See Stress and Strain.
- Valuation**
Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. Henry E. Riggs, T. R. Agg, N. T. Veatch, L. R. Howson, 1417.
Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. Henry E. Riggs, T. R. Agg, N. T. Veatch, L. R. Howson, 887. Discussion: C. Beverley Benson, E. M. T. Ryder, Wallace B. Carr, J. L. Campbell, Paul L. Holland, J. Kappeyne, C. Terry duRell, Anson Marston, Terrell Bartlett, E. E. Hart, Luther R. Nash, 1155; Donald Gunn, 1329; R. C. Price, 1493.

Waves

"Surges in Panama Canal Reproduced in Model." F. W. Edwards and Edward Soucek, 3. Discussion: Harold A. Weggel, 539; Harry Leopoldt, 763; C. J. Posey, 942; F. W. Edwards and Edward Soucek, 1598.

"Translatory Waves in Natural Channels." J. H. Wilkinson, 853.

Water, Duty of

"Evaporation from a Free Water Surface." G. H. Hickox, 1297.

Water, Flow of, in Open Channels

"Flow Around Bends in Stable Channels." Discussion: C. A. Mockmore, 373.

"Flow Characteristics at Rectangular Open-Channel Junctions." Discussion: Edward H. Taylor, 119.

"Hydraulic Model Investigation of Miter Gate Operation." Maurice N. Amster, 303. Discussion: Edward Soucek, 932; Isaac DeYoung, F. W. Edwards, 1227.

See also **Channels (Waterways)**.

Water Pollution

Pollution surveys. 458.

Water Power

"Storage and the Unit Hydrograph." Discussion: James S. Sweet, Otto H. Meyer, 249; L. K. Sherman, Gordon R. Williams, Ray K. Linsley, Jr., 403; E. F. Brater, L. C. Crawford, Robert E. Kennedy, Victor H. Cochrane, 775; Franklin F. Snyder, 935; Howard M. Turner, 1059; Don Johnstone, 1585.

Water Storage

"Storage and the Unit Hydrograph." Discussion: James S. Sweet, Otto H. Meyer, 249; L. K. Sherman, Gordon R. Williams, Ray K. Linsley, Jr., 403; E. F. Brater, L. C. Crawford, Robert E. Kennedy, Victor H. Cochrane, 775; Franklin F. Snyder, 935; Howard M. Turner, 1059; Don Johnstone, 1585.

Waterways

"Illinois Water Litigation, 1940-1941." Discussion: H. P. Ramey, Langdon Pearse, 590.

Agg.
Fil
J
Re
t
t
M
n
Ahlf.
"D
n
Alber
Ana
Aleck
She
Amm
Rain
Amst
"Hy
O
Aried
Rep
Atwo
Prog
tu
fie
cal
Co
Ayers,
Base
Balog,
Aero
Rain
Taco
Barber
Conso
Barron
Skew
Bartlett
Depre
Bean, E
Highw
Beard, L
Flood
Becker,
Chicag
Belcher,
Highw
Benscot
Base el
"Shear
crete
Wedge
Benson,
Deprec
Bergman
Analysi
Shear a
Bernard,
Meteor

AUTHOR INDEX

Agg, T. R.

Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 1417.
Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 887.

Ahl, August L.

"Design Constants for Beams with Nonsymmetrical Straight Haunches." 1237.

Albert, Odd

Analysis by superposition. 1147.

Aleck, B. J.

Shear and bond. 726.

Ammann, O. H.

Rainbow Arch Bridge. 207.

Amster, Maurice N.

"Hydraulic Model Investigation of Miter Gate Operation." 303.

Arlidge, A. R.

Repayment contracts. 237.

Atwood, William G.

Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.

Ayers, James R., Jr.

Base slab. 585.

Balog, Louis

Aerodynamic stability. 1573.
Rainbow Arch Bridge. 390.
Tacoma Narrows. 1475.

Barber, Edward S.

Consolidation of soils. 993.

Barron, Maurice

Skewed rigid frames. 417.

Bartlett, Terrell

Depreciation. 1188.

Bean, E. F.

Highway engineering. 533.

Beard, L. R.

Flood formulas. 1199.

Becker, Donald N.

Chicago bridges. 555.

Belcher, D. J.

Highway engineering. 740.

Benscoter, Stanley U.

Base slab. 587.
"Shear and Bond Stresses in Reinforced Concrete." 295.
Wedge-shaped members. 1350.

Benson, C. Beverley

Depreciation. 1155.

Bergman, Victor R.

Analysis by superposition. 1491.
Shear and bond. 1206.

Bernard, Merrill

Meteorology and flood estimating. 183.

Bernhard, R. K.

Aerodynamic stability. 410.

Beskin, Leon

Amplified slope deflection. 1516.
Characteristic redundants. 1611.
Rainbow Arch Bridge. 392.
Strength of struts. 224.
Two-dimensional framework. 913.

Bird, John M.

Pressure in plastic soils. 1639.

Birdsall, Blair

Aerodynamic stability. 1071.

Black, J. K.

Cutoff problems. 551.

Bleck, A. T.

Highway engineering. 534.

Blog, Leon

Analysis by superposition. 979.

Brainard, D. E.

Erection of turbines. 1196.

Brater, E. F.

Storage. 775.

Brown, Carl B.

Highway engineering. 423.

Bull, Anders

Shear and bond. 969.
"Stresses in the Linings of Shield-Driven Tunnels." 1363.

Burmister, D. M.

Military airfields. 1104.

Campbell, J. L.

Depreciation. 1166.

Cary, Allen S.

Highway engineering. 924.

Carr, Wallace B.

Depreciation. 1163.

Casagrande, A.

Building foundations. 341.
Military airfields. 955.

Catchings, William B.

Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. 663.

Chadwick, W. L.

Repayment contracts. 122.

Clark, C. O.

Flood formulas. 1505.

Cochrane, Victor H.

Storage. 781.

Colby, B. R.

"Flood Formulas Based on Drainage Basin Characteristics." 267.

Cotton, Harry E.

Military airfields. 950.

Crawford, L. C.

Storage. 776.

Crosby, Irving B.

Highway engineering. 1132.

- Crosby, W. W.**
Highway engineering. 236.
- Cross, Hardy**
Aerodynamic stability. 1073.
- Crum, Roy W.**
Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. 663.
- Cummings, A. E.**
Base slab. 579.
- DeYoung, Isaac**
Miter gate operation. 1227.
- Dobbins, William E.**
Turbulence and sedimentation. 372.
- Donaldson, Wellington**
"Concentration of Sewage Sludge (A Symposium): Concentration of Sewage Sludges, New York, N. Y." 1290.
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Downer, Jay**
Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. 663.
- Drucker, M. A.**
Pressure in plastic soils. 1215.
- duRell, C. Terry**
Depreciation. 1172.
- Edwards, F. W.**
Miter gate operation. 1230.
"Surges in Panama Canal Reproduced in Model." 3. Discussion. 1598.
- Eisenlohr, William S., Jr.**
"Coefficients for Velocity Distribution in Open-Channel Flow." 15.
- Ekblaw, George E.**
Highway engineering. 923.
- Elder, Clay C.**
Repayment contracts. 1485.
- Ellis, Charles A.**
Characteristic redundants. 1218.
- Ellsworth, Samuel M.**
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Endersby, V. A.**
Canal sections. 1231.
- Enslow, Linn H.**
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Epstein, Harris**
Base slab. 585.
- Eremin, A. A.**
Analysis by superposition. 1489.
Base slab. 196.
Highway engineering. 1594.
Queens tunnel. 189.
Skewed rigid frames. 595.
- Fadum, R. E.**
Building foundations. 341.
- Farquharson, F. B.**
Aerodynamic stability. 1003.
- Feld, Jacob**
Consolidation of soils. 998.
Highway engineering. 536.
Military airfields. 757.
- Ferguson, Phil M.**
Shear and bond. 1209.
Wedge-shaped members. 1347.
- Fields, Kenneth E.**
Levee failure. 786.
- Fischer, A. W.**
Analysis by superposition. 973.
- Forbes, Hyde**
Highway engineering. 1589.
- Foster, H. Alden**
"Construction of the Flow Net for Hydraulic Design." 647.
- Fox, Portland P.**
Cutoff problems. 545.
- Friedlaender, Hermann**
Aerodynamic stability. 1074.
- Gisiger, Paul E.**
Erection of turbines. 1000.
- Glenn, L. C.**
Cutoff problems. 789.
- Glick, George W.**
Consolidation of soils. 1225.
- Goldberg, John E.**
Analysis by superposition. 723.
- Goodrich, C. M.**
Rainbow Arch Bridge. 114.
- Goudey, R. F.**
"Concentration of Sewage Sludge (A Symposium): Experience in Los Angeles, Calif." 1276.
- Gould, John J.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Gray, Hamilton**
"Simultaneous Consolidation of Contiguous Layers of Unlike Compressible Soils." 149.
- Greeley, Samuel A.**
Sewage treatment finance. 91.
- Greulich, G. G.**
Cellular cofferdams. 1625.
Military airfields. 752.
- Grinter, L. E.**
Shear and bond. 967.
- Gronquist, C. H.**
Aerodynamic stability. 692.
Rainbow Arch Bridge. 608.
- Gunn, Donald**
Depreciation. 1329.
- Hadley, Homer M.**
Tacoma Narrows. 909.
- Hall, David B.**
Analysis by superposition. 1487.
Strength of struts. 413.
- Hall, L. Standish**
Sedimentation. 521.
Turbulence and sedimentation. 371.
- Hanrahan, Francis J.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.

- Hansen, H. J.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Hansen, Ralph**
Military airfields. 1107.
- Hart, E. E.**
Depreciation. 1190.
- Haswell, John R.**
Military airfields. 1091.
- Hathaway, Gail A.**
"Military Airfields (A Symposium): Design of Drainage Facilities." 55.
- Hickox, G. H.**
"Evaporation from a Free Water Surface." 1297.
- Hicks, W. I.**
Urban runoff. 695.
- Hill, Hibbert**
Military airfields. 753.
- Hinds, Julian**
Canal sections. 1343.
- Hirschthal, M.**
Rainbow Arch Bridge. 702.
- Hodges, Richard M.**
Skewed rigid frames. 596.
- Holland, Paul L.**
Depreciation. 1167.
- Holley, Myle J., Jr.**
Characteristic redundants. 1610.
- Holt, Marshall**
Strength of struts. 228.
- Hornor, W. W.**
Role of land. 707.
- Horonjeff, Robert**
Military airfields. 760.
- Howland, W. E.**
Military airfields. 565.
- Howson, L. R.**
Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 1417.
Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 887.
- Huggins, M. W.**
Characteristic redundants. 1611.
- Hunting, Marshall T.**
Highway engineering. 1594.
- Hussey, H. D.**
Slender beams. 240.
- Irwin, Raymond L.**
Military airfields. 747.
- Izard, C. F.**
Military airfields. 1500.
- Javis, Clarence S.**
Flood formulas. 903.
Military airfields. 943.
- Jakar, Ade E.**
Highway engineering. 924.
- Jenkins, David S.**
Military airfields. 569.
- Jervis, William H.**
Military airfields. 1092.
- Johnson, C. Frank**
Kutter's n for sewers. 93.
- Johnson, Lee H., Jr.**
"Analysis of Statically Indeterminate Structures Using Reduced Equations." 1395.
- Johnson, Lloyd M.**
Sludge drying. 678.
- Johnstone, Don**
Storage. 1585.
- Kalinske, A. A.**
"Conversion of Kinetic to Potential Energy in Flow Expansions." 1545.
Velocity distribution. 541.
- Kappeyne, J.**
Depreciation. 1171.
- Keefer, C. E.**
"Concentration of Sewage Sludge (A Symposium): Back River Sewage Works, Baltimore, Md." 1280.
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Keene, Philip**
Highway engineering. 535.
- Kellogg, F. H.**
Highway engineering. 528.
- Kennedy, Robert E.**
Storage. 780.
- Ketchum, Verne L.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Killam, E. T.**
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Kindsvater, Carl E.**
Sloping channels. 669.
- Kinnison, H. B.**
"Flood Formulas Based on Drainage Basin Characteristics." 267.
- Komora, Andrew M.**
"Erection of Hydraulic Turbines and Generators." 255.
- Krynline, D. P.**
Highway engineering. 1126.
"Pressure on the Lining of Circular Tunnels in Plastic Soils." 629.
- Langbein, Walter B.**
New Mexico and Arizona. 95.
- Legget, Robert F.**
Highway engineering. 1130.
- Leopold, Luna B.**
New Mexico and Arizona. 559.
- Leypoldt, Harry**
Canal surges. 763.
- Linsley, Ray K., Jr.**
Storage. 406.
- Logan, Samuel T.**
"Shear and Bond Stresses in Reinforced Concrete." 295.

- Lovering, Phillips H.**
Skewed rigid frames. 421.
- McConaughy, D. C.**
Canal sections. 1513.
- McCoy, Byron O.**
Flood formulas. 1340.
- McCullough, C. B.**
Chicago bridges. 105.
- McGee, Arthur B.**
Analysis by superposition. 981.
- McGuire, D. D.**
Military airfields. 951.
- McNown, John S.**
Velocity distribution. 1140.
- Mann, Ralph H.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Marshall, H. E.**
Highway engineering. 733.
- Marston, Anson**
Depreciation. 1181.
- Matthes, Gerard H.**
Progress Report of the Chairman, Joint Division Committee on Floods. 167.
- Mensch, L. J.**
Military airfields. 1603.
Rainbow Arch Bridge. 201.
- Merritt, F. S.**
Analysis by superposition. 719.
- Meyer, Otto H.**
Storage. 250.
- Mockmore, C. A.**
Stable channels. 373.
- Money-maker, Berlen C.**
Cutoff problems. 221.
Highway engineering. 530.
- Moore, R. Woodward**
Highway engineering. 921.
- Moorman, Robert B. B.**
"Wedge-Shaped Structural Members Under Direct Stress and Bending." 877.
- Morgan, Frank I.**
Erection of turbines. 1001.
- Mullis, Ira B.**
Military airfields. 1498.
- Murray, D. O.**
Military airfields. 1085.
- Nash, Luther R.**
Depreciation. 1191.
- Newman, James B., Jr.**
Military airfields. 231.
- Nubar, Yves**
"Analysis of the General Two-Dimensional Framework." 429.
- Oliver, William A.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Ord, M. J.**
Flood formulas. 1203.
- Osgood, William R.**
"Column Formulas." 1565.
- Farmer, E. D.**
Military airfields. 951.
- Peabody, Dean, Jr.**
Shear and bond. 728.
- Pearse, Langdon**
Illinois litigation. 590.
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
Sludge drying. 246.
Use of sewage sludge. 243.
- Pennoyer, Raymond P.**
Cellular cofferdams. 1629.
- Pittman, H. V.**
Military airfields. 1110.
- Pollvka, Jaroslav**
Analysis by superposition. 988.
Skewed rigid frames. 422.
Two-dimensional framework. 1221.
- Posey, C. J.**
Canal sections. 1514.
Canal surges. 942.
- Powell, Ralph W.**
"Flow in a Channel of Definite Roughness." 1521.
Suspended sediment. 1618.
- Price, E. C.**
Depreciation. 1493.
- Pringle, Thomas B.**
Military airfields. 1087.
- Proctor, Ralph E.**
Military airfields. 1095.
- Ramey, H. P.**
Illinois litigation. 590.
- Rapp, William G.**
Rainbow Arch Bridge. 392.
- Rathbun, J. Charles**
Skewed rigid frames. 193.
- Reissner, H.**
Aerodynamic stability. 1063.
- Richardson, Edward Adams**
Aerodynamic stability. 211.
- Riggs, Henry E.**
Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 1417.
Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 887.
- Roberts, J. F.**
Erection of turbines. 1195.
- Robertson, J. M.**
Aerodynamic stability. 689.
- Rouse, Hunter**
Velocity distribution. 1140.
- Rudolfs, Willem**
"Concentration of Sewage Sludge (A Symposium): Some Results in the State of New Jersey." 1283.
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.

- Rudolph, William E.**
Military airfields. 745.
- Rutledge, P. C.**
Disturbed sampling. 679.
- Ryder, E. M. T.**
Depreciation. 1161.
- Sandberg, C. H.**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Schneider, G. R.**
Military airfields. 1114.
- Schnepfe, Frederick E.**
Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. 663.
- Schuhmann, R., Jr.**
Turbulence and sedimentation. 252.
- Schuleen, Emil P.**
New Mexico and Arizona. 99.
- Sergev, S.**
Strength of struts. 1353.
- Shanley, F. B.**
Shear and bond. 725.
- Shepard, George M.**
Progress Report of a Committee of the Highway Division on Design and Construction of Airport Runways and Flight Strips. 663.
- Sherman, L. K.**
Storage. 403.
- Singleton, M. T.**
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Singstad, Ole**
Queens tunnel. 375.
- Smith, Frederick C.**
Aerodynamic stability. 1074.
- Snyder, Franklin F.**
Storage. 935.
- Sonderegger, A. L.**
Sedimentation. 387.
- Soucek, Edward**
"Lock Manifold Experiments." 1255.
Miter gate operation. 932.
"Surges in Panama Canal Reproduced in Model." 3. Discussion. 1598.
- Southwood, H. B.**
Turbulence and sedimentation. 370.
- Spiker, W. C.**
Analysis by superposition. 1153.
- Spofford, C. M.**
Rainbow Arch Bridge. 199.
- Stanley, C. Maxwell, Jr.**
Vertical-beam reservoirs. 179.
- Stanton, Thomas E.**
Military airfields. 425.
- Stern, George**
Rainbow Arch Bridge. 927.
- Stewart, Ralph W.**
"Amplified Slope Deflection." 1051.
Analysis by superposition. 720.
Characteristic redundants. 1609.
- Stratton, James H.**
"Military Airfields (A Symposium): Construction and Design Problems." 28.
- Streeter, Victor L.**
"Economical Canal Cross Sections." 619.
- Sweet, James S.**
Storage. 249.
- Taylor, Edward H.**
Flow at channel junctions. 119.
Velocity distribution. 543.
- Terzaghi, Karl**
Highway engineering. 1122.
"Stability and Stiffness of Cellular Cofferdams." 1015.
- Thomson, T. Kennard**
Rainbow Arch Bridge. 117.
- Turnbull, W. J.**
Military airfields. 1092.
- Turner, Howard M.**
Flood formulas. 1337.
Storage. 1059.
- Tuttle, Arthur S.**
Queens tunnel. 191.
- Van Driest, E. R.**
Suspended sediment. 1622.
Turbulence and sedimentation. 103.
Velocity distribution. 1137.
- Van Eenam, Nell**
Rainbow Arch Bridge. 607.
- Vanoni, Vito A.**
"Transportation of Suspended Sediment by Water." 793.
- Veatch, F. M.**
Second Progress Report of the Committee of the Sanitary Engineering Division on Sewerage and Sewage Treatment on Advances in Sewage Treatment and Present Status of the Art. 457.
- Veatch, N. T.**
Final Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 1417.
Report of the Special Committee Authorized by the Board of Direction to Analyze and Discuss the 1943 Report of the National Association of Railroad and Utilities Commissioners' Committee on Depreciation. 887.
- Vincent, George S.**
Aerodynamic stability. 1074.
- von Schrenk, Hermann**
Progress Report of the Committee of the Structural Division on Timber Structures on Classified Bibliography on the Physical and Mechanical Properties of Wood and the Design and Construction of Timber Structures. 321.
- Weggel, Harold A.**
Canal surges. 786.
- Wells, William L.**
Levee failure. 786.
- Wilbur, John B.**
"Characteristic Redundants Used for Analyzing Statically Indeterminate Structures." 829.
- Wilbur, William E.**
Shear and bond. 731.
- Wilkinson, J. H.**
"Translatory Waves in Natural Channels." 853.

Williams, Gordon R.
Storage. 405.

Williams, H. M.
Military airfields. 1116.

Wilson, David M.
"Analysis of Rigid Frames by Superposition."
129.

Winter, George
Slender beams. 715.

Witmer, Francis P.
Tacoma Narrows. 553.

Witzig, Berard J.
Sedimentation. 766.

Wood, Lyman W.
Highway engineering. 534.

Woods, K. B.
Highway engineering. 735.

Zelnick, E. W.
"Lock Manifold Experiments." 1255.

der